



March 10, 2008

Mr. William Jones
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Edge Petroleum Operating Company Inc
Application for saltwater disposal
Southeast Lusk 34 Federal No. 6
API 30-025-37681
Section 34, T-19S R-32E
Lea County, NM

Dear Mr. Jones:

Attached, please find Edge Petroleum Operating Company, Inc's ("Edge") application to convert to injection and operate as a saltwater disposal well the Southeast Lusk 34 Federal No. 6.

Attached in support of this application are two copies each of the following:

1. Administrative Application checklist.
2. Form C-108, Application for Authorization to Inject
3. Supporting documents for form C-108

If any further information is needed, please contact me at the letterhead address or by telephone, 713-427-8886.

Sincerely,

A handwritten signature in black ink that reads "Tom L. Powell".

Tom L. Powell
Manager, Reservoir Engineering
Edge Petroleum Operating Company
tpowell@edgepet.com



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1220 South St. Francis Drive
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Tom L. Powell
Manager, Reservoir Engineering
Edge Petroleum Operating Company
tpowell@edgepet.com

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No

II. OPERATOR: Edge Petroleum Operating Company

ADDRESS: 1301 Travis Suite 2000, Houston TX, 77002

CONTACT PARTY: Tom Powell PHONE: 713-427-8886

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes X No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Tom L. Powell TITLE: Manager Reservoir Engineering

SIGNATURE: Tom L. Powell DATE: March 10, 2003

E-MAIL ADDRESS: tpowell@edgepet.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them

III. Well Data.

A. Well data for the proposed injection well:

1. **Lease Name:** Southeast Lusk 34 Federal
Well: No. 6
API: 30-025-37681
Location: Section 34, T-19-S R-32-E
990 FNL + 990 FEL

2. **Casing Strings**
 - Surface:** 13-3/8" 54.5# J-55 ST+C casing
Hole size: 17-1/2"
Setting depth: 896 ft
Cement: 480 sacks "C" lead at 2.09 cf/sk,
200 sacks "C" tail at 1.34 cf/sk
Top Cement: surface (circulated 142 sacks)

 - Intermediate:** 10-3/4" 45.50# J-55 BT+C casing
Hole size: 12-1/2"
Setting depth: 3060 ft
Cement: 480 sacks "C" lead at 2.00 cf/sk,
200 sacks "C" tail
Top Cement: surface (circulated 131 sacks)

 - Intermediate:** 7-5/8" 29.70# N-80 LT+C casing
Hole size: 9-1/2"
Setting depth: 4270 ft
DV Tool: 3025 ft
Cement 1st: 175 sacks "C" lead at 2.15 cf/sk,
200 sacks "C" tail at 1.32 cf/sk
Open DV tool
Cement 2nd: 650 sacks "C" lead at 2.15 cf/sk,
200 sacks "C" tail at 1.32 cf/sk
Did not circulate cement
Top Cement: 2,740 ft temperature survey

 - Production:** 4-1/2" 11.6# N-80 LT+C casing
Hole size: 6-1/2"
Setting depth: 7999 ft
Cement: 200 sacks Litecrete
Top Cement: 3358 ft (CBL)

3. **Tubing to be used:**

Size: 2-7/8" 6.50# L-80
Lining material: plastic lined
Setting depth: 4550 ft

4. **Name, model, setting depth of packer to be used:**

Manufacturer: Weatherford
Model: HD
Setting Depth: 4550 ft

B.

1. **Name of injection formation:** Delaware

Field or Pool name: Lusk East Delaware

2. **Injection Interval:** 4680 – 4725 ft
4998 – 5038 ft
5580 – 5598 ft
5610 – 5624 ft
6550 – 6532 ft
6708 – 6720 ft
6732 – 6786 ft

3. **Original purpose of well:**

The well was originally drilled as a Bone Springs oil producing well.

4. **Perforated intervals and method used to seal off perforations:**

Bone Springs 7789-7793 ft
7882-7886 ft
7895-7905 ft

Proposed isolation:

Cast iron bridge plug 6,985 ft
35 ft cement, top at 6,950 ft

5. **Depth and name of next higher and next lower oil or gas zone, if any:**

Next higher: none

Next lower: Bone Springs (oil)
7,789 ft

IV. **This is not an expansion of an existing project**

V. Attach map identifying all wells and leases within two miles of well and a one-half mile radius drawn around the well

Map is attached.

VI. Attach tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Include schematic of any plugged well showing all plugging detail.

There is one well within the area of review that penetrates the proposed injection zone. The data for that well is tabulated below.

Well Name: Southeast Lusk 34 Federal No. 5
API: 30-025-37680
Operator: Edge Petroleum Operating Co.

Well Location: 990 FNL + 1650 FWL, Section 34, T-19-S, R-32-E,
Lea County

Well Type / Status: Oil / producing

Spud Date: 8-04-2007

Depth: TD 5074 ft.

Surface Casing: 13-3/8" 54.5# set at 890 ft
Lead stage cemented w/ 499 sks 35-65 Poz C at 1.96 cf/sk
Tail 200 sacks class C at 1.33 cf/sk
Circulated 243 sacks to pit.. Hole size 17-1/2"

Intermediate Casing: 10-3/4" 45.5# J-55 BTC set at 3092 ft, cement with 660
sacks 35:65 Poz "C", tail with 200 sacks class C, circulated
300 sacks to pit. Hole size 12-1/4"

Intermediate Casing: 7-5/8" 26.6# set at 4283 ft, cement first stage with 140
sacks 50/50 poz "C" (21 bbls), tail with 120 sx "C" (60
bls), (calc TOC 2165 ft).
Open stage collar @ 2992 ft. Cement second stage w/ 260
sx 50/50 poz "C", tail w/ 100 sx "C", circulate 40 sacks.
Hole size 9-7/8"

Production Casing: 5-1/2" 17#, Ultra FJ, set at 5073 ft, cement w/ 100 sacks
"C" (24.0 bbls). TOC 3980' per CBL.

Completion: Perf Cherry Canyon 4904-4914, Frac w/ 663 Bbls clearFrac
+ 30,845# 20/40 sand.
Perf Cherry Canyon 4837-4847, Frac w/ 669 Bbls clearFrac
+ 33,294# 20/40 sand.
Ran tubing, pump + rods.

VII. Attach data on proposed operation.

1. Proposed average daily rate: 1500 Bwpd
Proposed maximum daily rate: 2500 Bwpd
2. System will be closed system
3. Proposed average injection pressure: 500 psi estimated
Proposed maximum injection pressure: 0.2 psi/ft (936 psi @ 4680 ft)
4. Sources of water will be produced water from reservoirs in the Lusk area; Delaware Bell Canyon, Cherry Canyon, Brushy Canyon; Bone Springs, Atoka, Morrow. An analysis of the various waters is attached.
5. An analysis of the disposal zone (Delaware) formation water is attached.

VIII. Attach appropriate geologic data on the injection zone.

The proposed injection zone are the sandstones in the Guadalupian Delaware Mountain Group, containing intervals known as the Bell Canyon, Cherry Canyon, and Brushy Canyon. The top of the Delaware is at 4245 ft; the base is at 7980 ft. Selected porous intervals within this section will be targeted for injection. At the Lusk 34-6 well, these intervals are low and water-bearing. Further updip to the west, some of the intervals are productive of oil where there exists sufficient porosity. Attached is a well log indicating the proposed perforation intervals.

Give geologic name and depth to bottom of all underground sources of drinking water.

The following information is based on material from Ground-Water Report No.6 "Geology and Ground-Water Conditions in Southern Lea County, New Mexico", and Ground-Water Report No.3 "Geology and Ground-Water Resources of Eddy County, New Mexico", published by the USGS and New Mexico Bureau of Mines and Mineral Resources.

In southern Lea County, all potable ground water is from three geologic units: the Upper Triassic red beds (Chinle, Santa Rosa, and Dockum Group), the Tertiary Ogallala, and

Quaternary Alluvium. The top of the Rustler Anhydrite is regarded as the effective lower limit of fresh water. In the area of review, the Ogallala and Alluvium units are mapped as absent. The top of the red beds is approximately 3425 ft above sea level (160 ft depth). Stock and domestic water supplies are available at depths of less than 300 ft in the red beds, quality is fair but locally impotable. No known fresh water sources are underlying the injection interval.

The top of the ~~Capitan~~ Reef interval is at 3288 ft and the top of the Delaware Mountain Group is at ~~4849 ft~~ 4245 ft

IX. Describe the proposed stimulation program, if any.

The injection zones will be perforated, broken down with a small acid stimulation, and if necessary stimulated with a small sand fracture treatment..

X. Attach appropriate logging and test data on the well.

The complete well logs for this well are on file with the Division.

XI. Attach chemical analysis of fresh water from two or more fresh water wells within 1 mile.

No fresh water wells are producing within one mile of the proposed injection well.

XII. Applicants must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or other hydrologic connection between the disposal zone and any underground sources of drinking water.

We have examined the available geologic and engineering data and find no evidence of open faults or other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section.

XIV. Proof of Notice

Attached with this application is the list of leasehold operators within one-half mile, and the surface owner. The proof of notice to these entities and proof of publication is also included.

Surface Owner:

United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 E. Greene St
Carlsbad, NM 88220

List of Leasehold operators within one-half mile

Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

Marbob Energy Corp
P. O. Box 227
Artesia, NM 88211

Saba Energy of TX, Inc
3201 Airpark Dr #201
Santa Maria, CA 93455

Attachment III a.
SE Lusk 34-6 C-108 Application
Wellbore Diagram - Current

EDGE PETROLEUM CORPORATION
WELLBORE SCHEMATIC - CURRENT

API: 30-015-31829 OPERATOR: EDGE PETROLEUM OPERATING COMPANY SPUD: 2/17/2006
 LEASE: SE LUSK 34 FEDERAL SURF LOC: 990' FNL, 990' FEL SECTION 34, T19S, R32E TD: 3/20/2006
 WELL: No. 6 BHL: STRAIGHT HOLE ELEV. 3,567'
 AREA: LEA CO., NM X: 680170 KB: 3,585'
 FIELD: SOUTH LUSK Y: 590227

DIRECTIONAL	OPEN HOLE LOGGING	SANDS/MARKERS	DEPTH		CASING PROFILE	HOLE SIZE	CASING DETAILS	MUD WT. & TYPE	MAXIMUM DOGLEG SEVERITY
			TVD	MD					
			40'	40'		PRESET	20" Conductor		
			896	896		17 1/2"	13 3/8", 54.5 ppf J-55, STC	SPUD MUD 8.6-8.8 PPG	2°/100'
		Rustler	1060	1060			480 sx "C" + 200 sx "C Circ 142 sx		
		Yates	2895	2895					
		TOC - By Temp Survey	2740	2740		12 1/4"			
		DV Tool	2960	2960			10 3/4" J-55, 45.5, BTC 0'-3060' 680 sx + 200 sxs Circ 131 sx	10.0-10.2 ppg Brine wtr 28-34 CP 896'-3060'	
		Seven Rivers	3250	2350			DV Tool		
		Capitan Reef	3288	3288					
		Delaware Mt Group	4245	4245		9 1/2"		8.4-8.6 ppg Fresh wtr Vis 28-29	
STRAIGHT HOLE	E-LOGS NONE		4270	4270			7 5/8", 29.7 ppf N-80, LTC 0'-4257'	3060'-4270'	2°/100'
							1st Stage 175 sx + 200 sx open DV tool @ 2960 ft 2nd Stage 650 sx + 200 sx TOC 2740 ft temperature survey		
							TOC @ 3358'		
		Bell Canyon	4485	4485		6 1/2"		8.4-8.6 ppg fresh/brine/mud 4270'-8030' WL 6-8 CC Vis 28-40	
		Cherry Canyon	4849	4849			Tubing detail 6/16/2006 7553 ft 238 jts 2-3/8" 7556 ft Tubing anchor in 17 pts tension 7841 ft 9 jts 2-3/8" 7842 ft Seating nipple 7846 ft Perf sub 7878 ft 1 jt 2-3/8" 7878 ft bull plug (EOT)		
		Bushy Canyon	5880	5880			Rod Detail 6/19/2006 13 ft Polish rod (22 ft) 17 ft Pony (2 - 2 ft) 2942 ft 117 - 7/8" HS rods 7367 ft 117 - 3/4" HS rods 7817 ft 18 - 7/8" HS rods 7843 ft Pump 20-150-RHBC-24-3-0-HPT "Frac Pump" 7849 ft Gas anchor		
		Bone Springs	7590	7590					
		Bone Springs Perfs	7789-7793 7882-7886 7895-7905						
STRAIGHT HOLE	E-LOGS Triple Combo 4270' to 7800'	TD	8030	8030			4 1/2", 11.6#, N-80, LTC 0'-7999' 200 sx Litecrete Top Cement 3358 ft (cement bond log)		2°/100'

Attachment III b.
SE Lusk 34-6 C-108 Application
Wellbore Diagram - Proposed

**EDGE PETROLEUM CORPORATION
WELLBORE SCHEMATIC - PROPOSED**

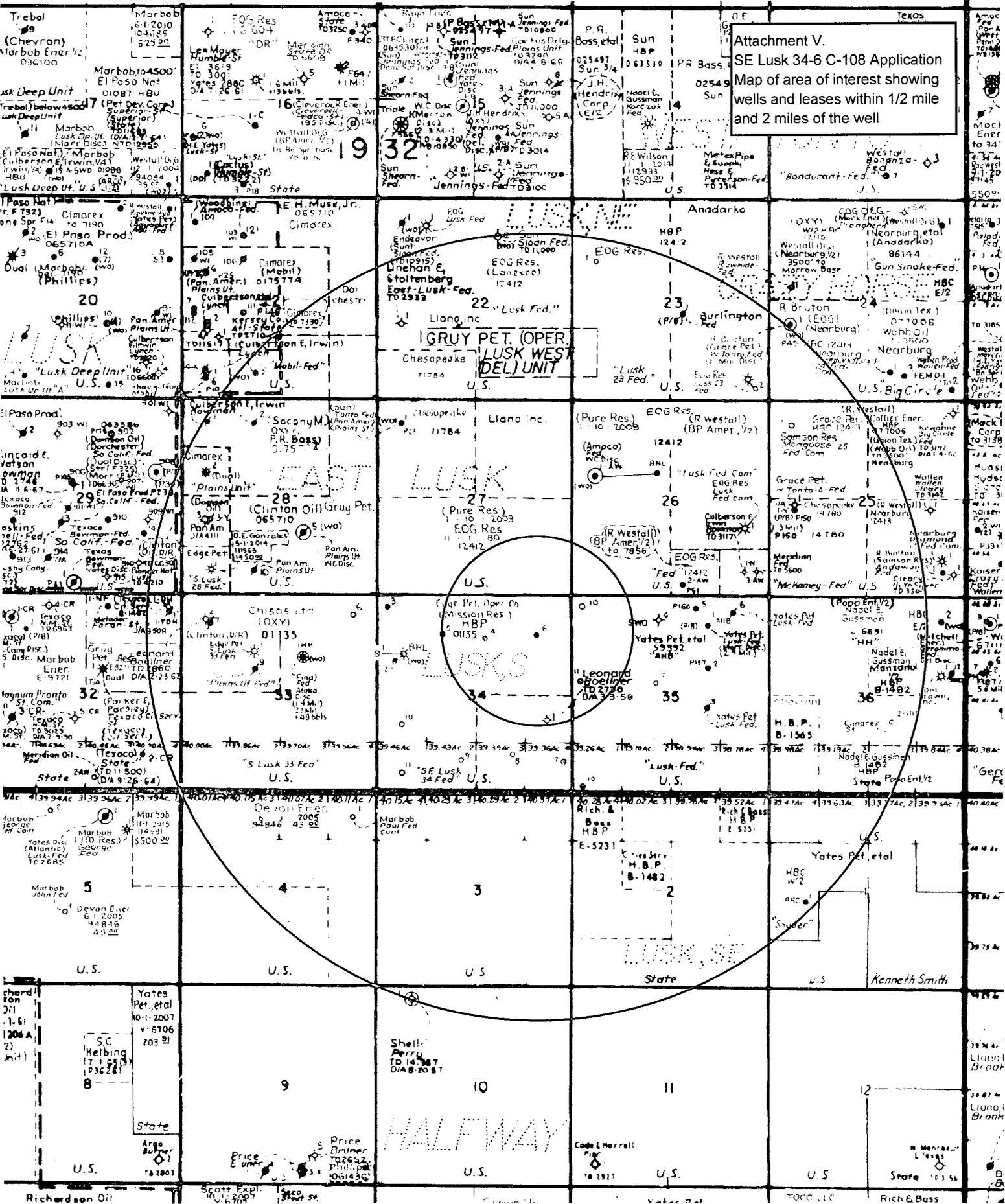
API: 30-015-31829
LEASE: SE LUSK 34 FEDERAL
WELL: No. 6
AREA: LEA CO., NM
FIELD: SOUTH LUSK

OPERATOR: EDGE PETROLEUM OPERATING COMPANY
SURF LOC: 990' FNL, 990' FEL SECTION 34, T19S, R32E
BHL: STRAIGHT HOLE
X: 680170
Y: 590227

SPUD: 2/17/2006
TD: 3/20/2006
ELEV: 3,567'
KB: 3,585'

DIRECTIONAL	OPEN HOLE LOGGING	SANDS/MARKERS	DEPTH		CASING PROFILE	HOLE SIZE	CASING DETAILS	MUD WT. & TYPE	MAXIMUM DOGLEG SEVERITY
			TVD	MD					
			40'	40'		PRESET	20" Conductor		
			896	896		17 1/2"	13 3/8", 54.5 ppf J-55, STC	SPUD MUD 8.6-8.8 PPG	2°/100'
		Rustler	1060	1060			480 sx "C" + 200 sx "C Circ 142 sx		
		Yates	2895	2895					
		TOC - By Temp Survey	2740	2740		12 1/4"			
		DV Tool	2960	2960			10 3/4" J-55, 45.5, BTC 0'-3060'	10.0-10.2 ppg Brine wtr 28-34 CP	
			3060	3060			680 sx + 200 sxs Circ 131 sx	896'-3060'	
		Seven Rivers	3250	2350			DV Tool		
		Capitan Reef	3288	3288					
		Delaware Mt Group	4245	4245		9 1/2"		8.4-8.6 ppg Fresh wtr Vis 28-29	
STRAIGHT HOLE	E-LOGS NONE		4270	4270			7 5/8", 29.7 ppf N-80, LTC 0'-4257'	3060'-4270'	2°/100'
							1st Stage 175 sx + 200 sx open DV tool @ 2960 ft 2nd Stage 650 sx + 200 sx TOC 2740 ft temperature survey		
							TOC @ 3358'		
		Bell Canyon	4485	4485		6 1/2"		8.4-8.6 ppg fresh/brine/mud 4270'-8030' WL 6-8 CC Vis 28-40	
							Proposed tubing 4550' 2-7/8" 6.50# J-55 plastic lined tubing 4550' Weatherford HD Packer		
		Cherry Canyon	4849	4849			4680-4725 proposed perfs		
							4998-5038 proposed perfs		
							5580-5598 proposed perfs		
							5610-5624 proposed perfs		
		Bushy Canyon	5880	5880			6550-6532 proposed perfs		
							6708-6720 proposed perfs		
							6732-6786 proposed perfs		
		Bone Springs	7590	7590			CIBP at 6985 ft w/ 35 ft cement on top to 6950 ft		
		Bone Springs Perfs	7789-7793						
			7882-7886						
			7895-7905						
STRAIGHT HOLE	E-LOGS Triple Combo 4270' to 7800'	TD	8030	8030			4 1/2", 11.6#, N-80, LTC 0'-7999' 200 sx Litecrete		2°/100'
							Top Cement 3358 ft (cement bond log)		

Attachment V.
SE Lusk 34-6 C-108 Application
Map of area of interest showing
wells and leases within 1/2 mile
and 2 miles of the well



EDGE PETROLEUM OPERATING COMPANY, INC.

Wellbore Schematic - Current

OPERATOR: EDGE PETROLEUM OPERATING COMPANY

API: 30-015-31829
LEASE: LUSK 34 FED
WELL: No. 5
AREA: LEA CO., NM
FIELD: SOUTH LUSK

SURF LOC: 990 FNL + 1650 FWL, SECTION 34, T19S, R32E SPUD:
BHL: STRAIGHT HOLE
X: 677,528.6
Y: 590,211.3

8/5/2007
8/29/2007
3,561'
3,585'

DIRECTIONAL	SANDS/ MARKERS	DEPTH		CASING PROFILE	HOLE SIZE	CASING DETAILS	DESCRIPTION
		TVD	MD				
		40'	40'		PRESET	20" Conductor	
		890'	890'		17-1/2" Hole	13-3/8", 68 ppf J-55, BTC	
		3092'	3092'		12-1/4" Hole	499 sx 35:65 poz "C" + 200 sx "C" Circ 243 sx	
	Capitan Reef	3260'	3260'			10-3/4", 45.5 ppf J-55, BTC	
	lost all returns	3585'	3585'			660 sx "C" + 200 sx "C" Circ 300 sx	
		4283'	4283'		7-5/8" stage collar @ 2992'		Pumping Unit Lufkin 640-365-144 electric motor
					9-7/8" Hole		Rod String Detail 16' x 1-1/4" x 1-1/2" PRL 26' x 1-2/4" polish rod 1 - 2' x 7/8" pony 1 - 8' x 7/8" pony
					TOC @ 3980' CBL		193 - 7/8" Weatherford KD rods 24' x 2" Quinn Frac Pump w/ RHBC
					7-5/8", 26.4 ppf P-110, LTC		
	** Ran DST in Belco while drilling **				Stage 1 140 sx 50/50 poz "C" (21 bbbls) + 120 sx "C" (60 bbbls) (Calc cmt to 2165 ft). Stage 2 (tool at 2992 ft) 260 sx 50/50 pz "C" + 100 sx "C" Circ 40 sx		
	Belco - Upr	4510'	4510'		6-3/4" Hole		
	Belco - Mid	4598'	4598'				
	Belco - Lwr	4660'	4660'		4700'	TBG ANCHOR	
Stage 2 Frac	Cherry Canyon	4795'	4795'		Perforations 4837'-4847' 4spf	Frac'd w/ 669 bbl ClearFrac & 33,294# 20/40 sand	
Stage 1 Frac					4904'-4914' 4spf	Frac'd w/ 663 bbl ClearFrac & 30,845# 20/40 sand	
					4919'	SEATING NIPPLE	
					5021'	PERFORATED SUB END OF TUBING	2-7/8" 6.5# J-55 EUE 8rd Tubing
	PBTD	4967'	4967'		tagged 11/28/2007	5-1/2", 17#, L-80, Ultra-FJ cement 100 sx "C" (24 bbbls).	
STRAIGHT HOLE	TD	5074'	5074'				

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

Attachment VII-4,5
SE Lusk 34-6 C-108 Application
Disposal and Source waters

MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mr. Kennon Doyal LABORATORY NO. 506-38
1301 Travis, Houston, TX 77062 SAMPLE RECEIVED 5-1-06
RESULTS REPORTED 5-3-06

COMPANY Edge Petroleum LEASE SE Lusk 34 Fed
FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Submitted water sample - taken from well #3 on 4-29-06. Brushy Canyon Source + disposal Zone Water
NO. 2 Submitted water sample - taken from well #6 on 4-29-06. Bone Springs Source Zone Water
NO. 3 _____
NO. 4 _____

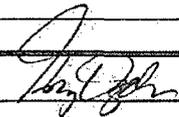
REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1620	1.0560		
pH When Sampled.				
pH When Received	5.85	7.04		
Bicarbonate as HCO ₃	159	1,122		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	93,000	11,200		
Calcium as Ca	26,800	3,840		
Magnesium as Mg	6,318	389		
Sodium and/or Potassium	62,563	31,147		
Sulfate as SO ₄	600	1,834		
Chloride as Cl	161,880	53,960		
Iron as Fe	88.9	459		
Barium as Ba	0	0		
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	258,319	92,293		
Temperature, °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen.				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/cm at 77° F.	0.050	0.101		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: Based on a comparison with our cataloged formation water records in the Lusk and surrounding fields, we find that this water from well #3 correlates well with Delaware while the water from well #6 has characteristics very similar to Bone Springs.

Form No. 3

By 

Greg Ogden, B.S.

P.O. BOX 98
 MIDLAND, TX. 79702
 PHONE (432) 683-4521

Martin Water Laboratories, Inc.

Attachment VII-4,5 continued
 SE Lusk 34-6 C-108 Application
 Source waters + Disposal zone waters

705 W. INDEPENDENCE
 MIDLAND, TEXAS 79701
 FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mr. Ryan Price LABORATORY NO. 907-2 (pg 1)
1301 Travis, Suite 2000, Houston, TX 77002 SAMPLE RECEIVED 8-30-07
 RESULTS REPORTED 9-5-07

COMPANY Edge Petroleum LEASE SE Lusk
 FIELD OR POOL _____
 SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Southeast Lusk #28-1 (Morrow). Source Zone Water
 NO. 2 Southeast Lusk #34-1. (Morrow). Source Zone Water
 NO. 3 Southeast Lusk #34-2 (Delaware). Source + disposal Zone Water
 NO. 4 Southeast Lusk #34-3 (Delaware). Source + disposal Zone Water

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0231	1.0321	1.1668	1.1685
pH When Sampled				
pH When Received	6.92	7.32	5.61	5.97
Bicarbonate as HCO ₃	573	878	37	85
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	2,050	5,000	87,000	87,000
Calcium as Ca	736	1,800	29,200	14,000
Magnesium as Mg	51	122	3,402	12,636
Sodium and/or Potassium	10,989	17,651	62,507	74,504
Sulfate as SO ₄	424	101	586	596
Chloride as Cl	17,750	30,175	157,620	176,080
Iron as Fe	59.3	69.2	410	82.7
Barium as Ba	0	0	0	0
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	30,524	50,727	253,352	277,902
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen.				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohm-cm at 77° F.	0.250	0.160	0.051	0.047
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

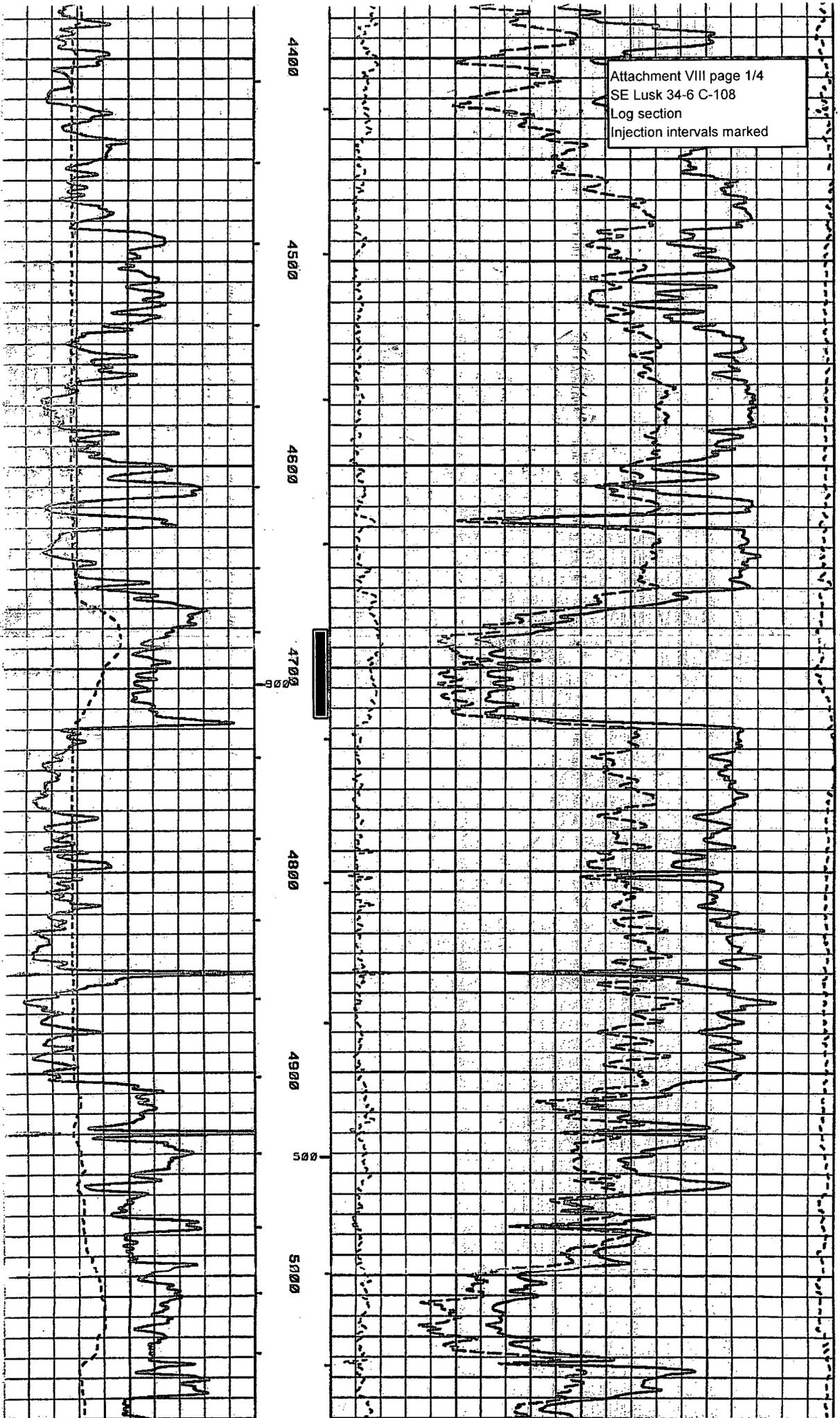
Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

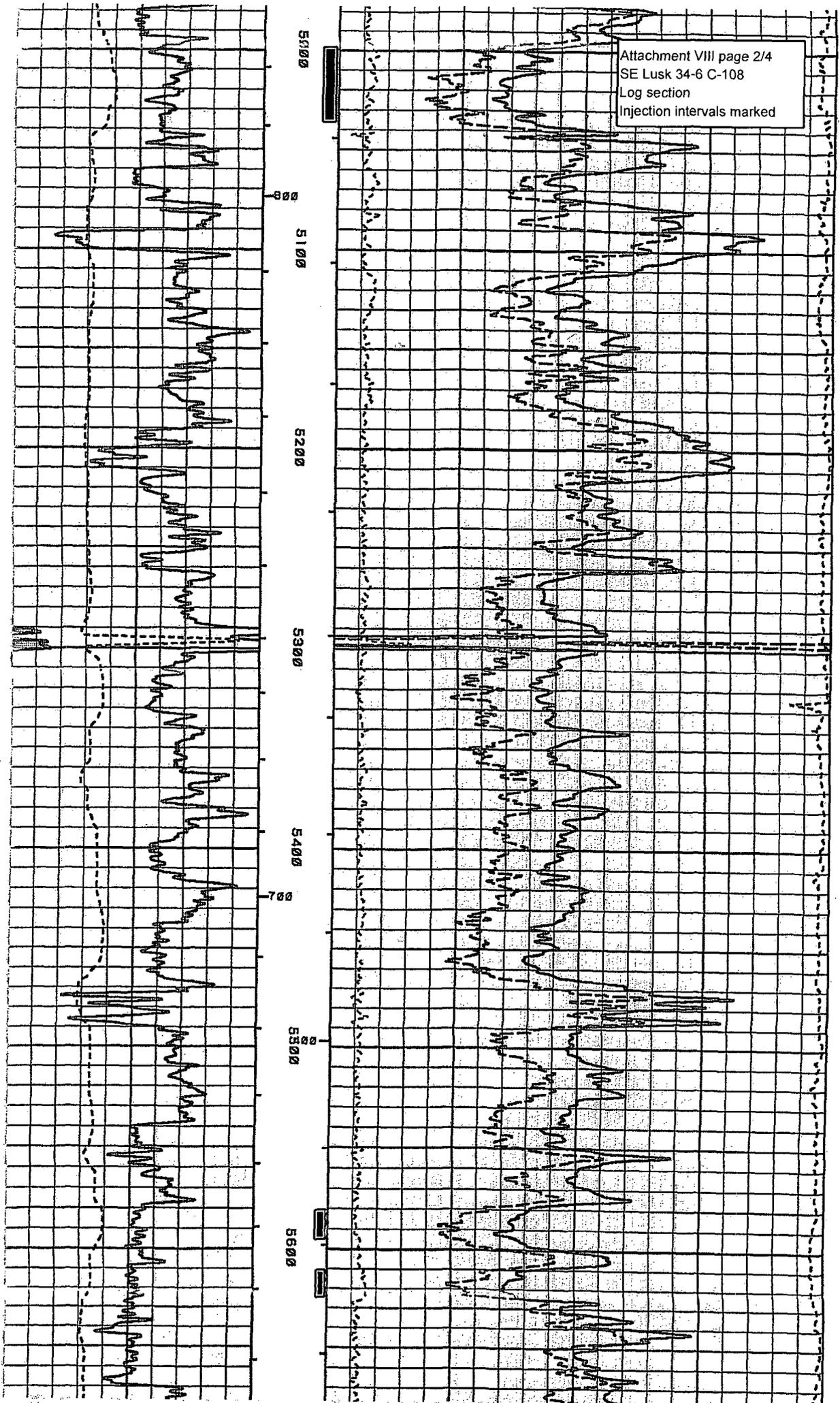
Form No. 3

By _____

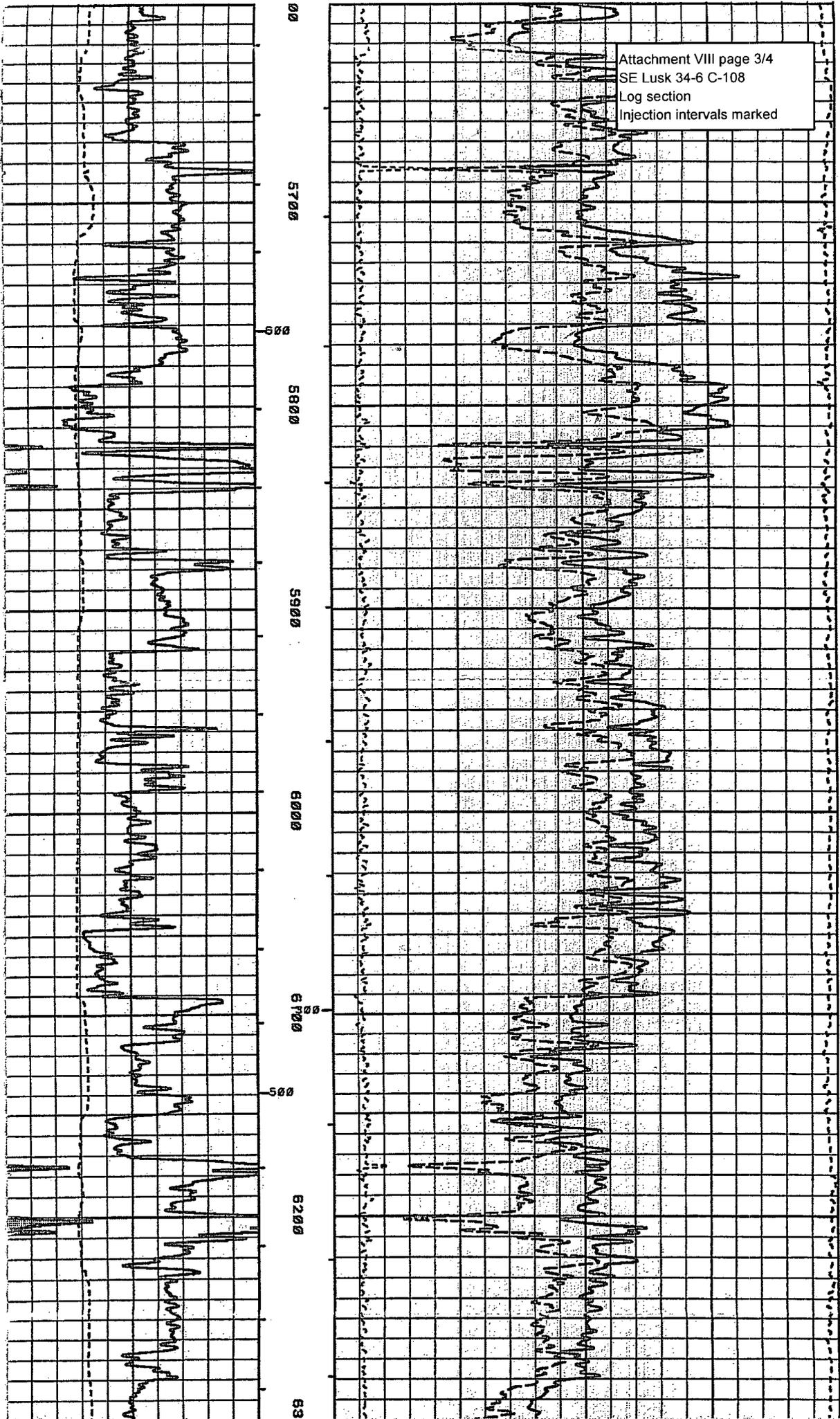
Attachment VIII page 1/4
SE Lusk 34-6 C-108
Log section
Injection intervals marked



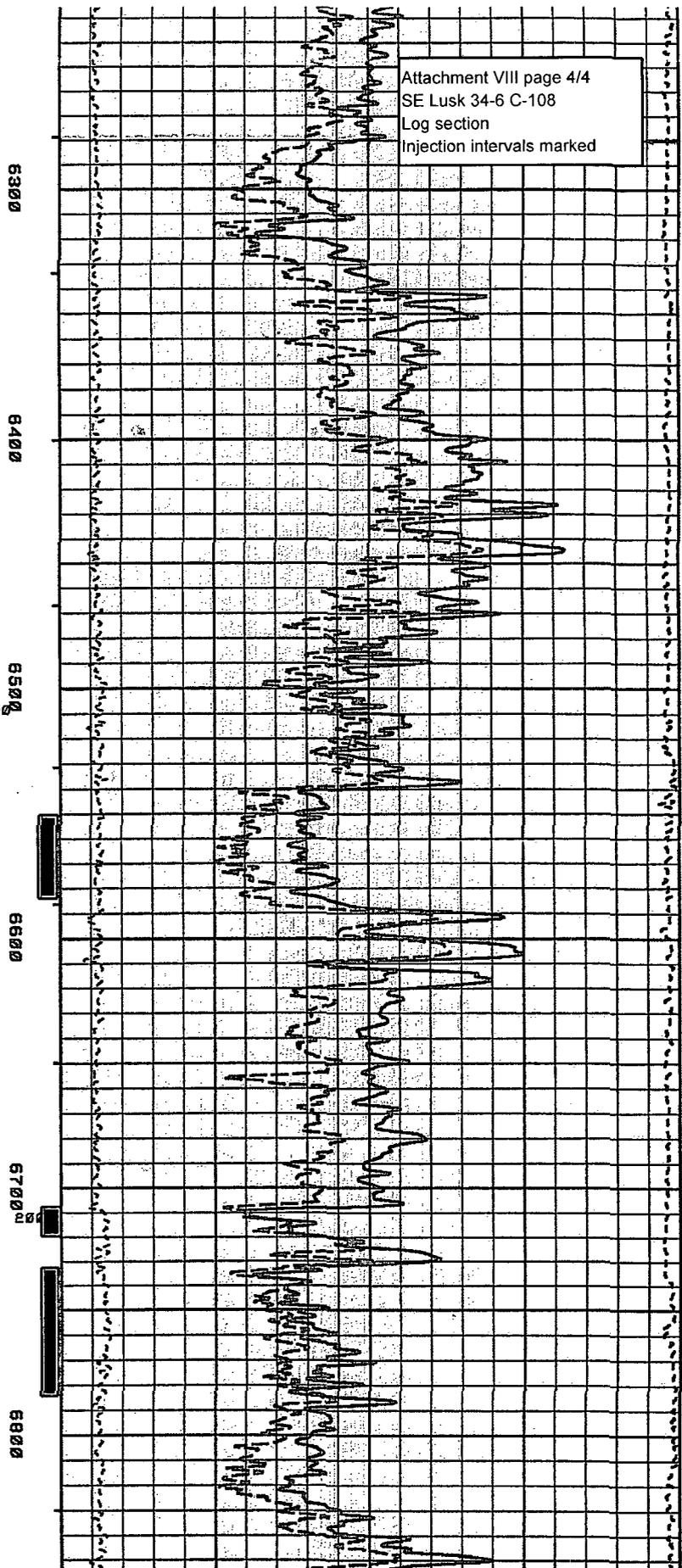
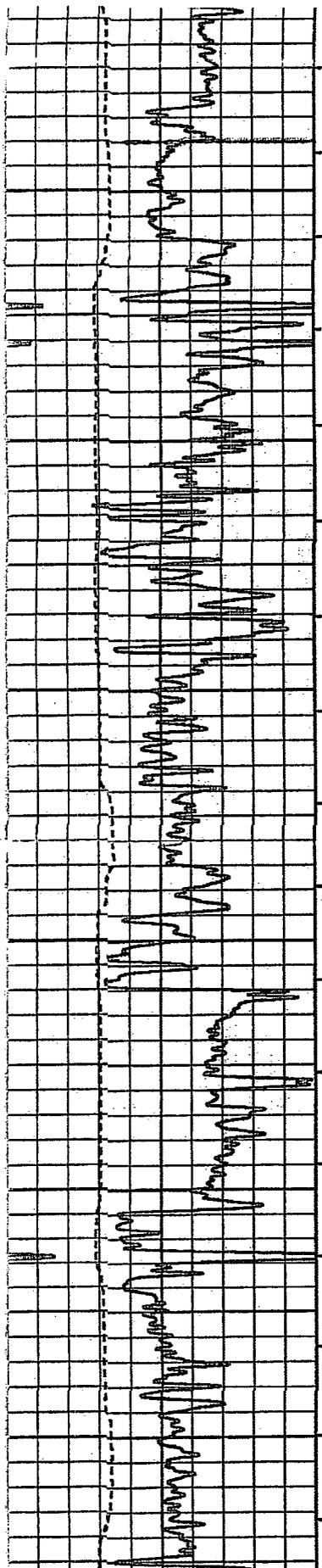
Attachment VIII page 2/4
SE Lusk 34-6 C-108
Log section
Injection intervals marked



Attachment VIII page 3/4
SE Lusk 34-6 C-108
Log section
Injection intervals marked



Attachment VIII page 4/4
SE Lusk 34-6 C-108
Log section
Injection intervals marked



AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

Attachment XIV page 1
SE Lusk 34-6 C-108
Proof of Notice
Affidavit of Publication

I, KATHI BEARDEN

PUBLISHER

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of 1 weeks.

Beginning with the issue dated February 15 2008 and ending with the issue dated

February 15 2008

Kathi Bearden

PUBLISHER

Sworn and subscribed to before

me this 15th day of

February 2008
[Signature]

Notary Public.

My Commission expires
February 07, 2009
(Seal)



OFFICIAL SEAL
ORA MONTZ
NOTARY PUBLIC
STATE OF NEW MEXICO

My Commission Expires: _____

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE
February 15, 2008

Edge Petroleum Operating Company, Inc. 1301 Travis Suite 2000, Houston, TX 77002, has filed form C-108, Application for Authorization to Inject, with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Southeast Lusk 34 Federal No. 6, is located 990 ft FNL, 990 ft FEL, Section 34, Township 19S, Range 32 East, Lea County, New Mexico. Disposal water is from wells in the Lusk area that produce from the Delaware, Bone Springs, Morrow, Atoka formations. The water will be injected into the Delaware formation at a depth of 4680 - 6786 ft with a maximum surface pressure of 936 psi and a maximum rate of 2500 Bwpd.

All interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505, within 15 days of the date of this publication. Additional information can be obtained by contacting Tom Powell, Edge Petroleum Operating Company Inc, 1301 Travis Suite 2000, Houston, TX 77002, or (713) 427-8886. #23840

02108492000 02598353
EDGE PETROLEUM
1301 TRAVIS, SUITE 2000
HOUSTON, TX 77002

7001 2510 0000 3479 4641



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City, State, ZIP+4 **ARTESIA, NM 88210**

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 or PO Box No. 3201 AIRPARK DRIVE
 City, State, ZIP+4 SANTA MARIA, CA 93455

PS Form 3800, January 2001 See Reverse for Instructions

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Sent To
 U.S. DEPT. OF INTERIOR BUREAU, LAND MGMT
 Street, Apt. No.;
 or PO Box No. CARLSBAD FIELD OFFICE
 City, State, ZIP+4 620 EAST GREEN ST.
 CARLSBAD NM 88220

PS Form 3800, January 2001 See Reverse for Instructions

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, April 23, 2008 5:11 PM
To: 'Powell, Tom'
Subject: RE: SWD application from Edge Petroleum: SE Lusk 34 Fed #6 (API No. 30-025-37681)

Hey Tom:
 This is all I need, I will get this ready for a signature tonight.

Thank You,

William V. Jones PE
 New Mexico Oil Conservation Division
 1220 South St. Francis
 Santa Fe, NM 87505
 505-476-3448

From: Powell, Tom [mailto:tpowell@edgepet.com]
Sent: Wednesday, April 23, 2008 4:55 PM
To: Jones, William V., EMNRD
Cc: Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD
Subject: RE: SWD application from Edge Petroleum: SE Lusk 34 Fed #6 (API No. 30-025-37681)

Thanks William,

The Bone Springs is very thin and tight in this well, we have trouble keeping the unit running; when it does the rate is 2-3 bopd.

I will send some information on the Delaware tomorrow, but it appears to our geologist that the main pay zones in the 34-5, 34-2, and 34-3 are not present in the 34-6. The upper "Belco" sand is present, but it is down dip and had poor shows in cores and on mud logs. Overall, this well was low with few mud log shows. In the other wells on the lease, the zones which were productive had excellent shows in cores and mud logs. We had considered swab testing, and may still do this, but our partners are very sensitive to capital expenditures and have been against extensive testing that we have done in the past out here. The data we have collected from all the testing in the offset wells 34-3 and 34-2 really indicates that if these zones are oil productive, they will be at very small oil rates with significant water.

If the injection intervals are in communication with the 34-2 and 34-3, we believe that would be a positive (Pure does as well) by providing pressure support and sweeping some oil to the producers. The 34-2 has maintained a flat GOR, but the 34-3 has increased a bit. The zones are not exactly the same in these two. The 34-5 looks like different zones altogether. There is also a lower zone, Brushy Canyon, in the 34-2, currently isolated, which is the main pay in the old waterflood to the northwest. This zone rapidly increased in GOR, so I suspect it is limited, but in the event it is connected to the Brushy Canyon zone in the 34-6, that would help repressure and sweep oil to the 34-2.

I have discussed with Pure the injection intervals in this well and they agree with the selection. They have been calling or emailing us almost daily to get the disposal project going, so I know they concur with the use of the well as disposal. At our last partner meeting we discussed the plans to convert this well to injection so Chisos should be on board as well.

Thanks for the questions, I will get more info to you tomorrow, let me know if you have other questions,
 Tom

Tom Powell
 Edge Petroleum Corporation
 713-427-8886 office
 281-414-8889 mobile
 tpowell@edgepet.com

4/23/2008

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Wednesday, April 23, 2008 5:13 PM
To: Powell, Tom
Cc: Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD
Subject: SWD application from Edge Petroleum: SE Lusk 34 Fed #6 (API No. 30-025-37681)

Hello Tom:

Was the Bone Spring production totally gone - or is it just at a very low level?

I understand that the (Edge operated) offsetting Delaware producer (SE Lusk 34 Fed #5) is higher on structure than the subject well and the subject well may be wet in the target injection zones? Would you please send a crude structure map showing the Delaware structure (or just subsea elevation numbers) and a water saturation calculation OR a copy of a mud log over these intervals in both wells to support this? Should the new perfs in the subject well be swab tested? or why not?

Would you also talk a bit using reservoir engineering reasoning, as to why this injection would not harm production in your producer?

Do your partners, Chisos and Pure (or successor) concur with the use of this well as an injector in those Delaware intervals?

Rule 40 looks fine for Edge

Thank you for sending answers to these questions,

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

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Injection Permit Checklist 2/8/07

SWD Order Number 1117 Dates: Division Approved _____ District Approved _____

Well Name/Num: Southern Lusk 34 Fed #6 Date Spudded: 2/17/06

API Num: (30-) 025-37681 County: Leon

Footages 990 FNL/990 FEL Sec 34 Tsp 19S Rge 32E

Operator Name: EDGE Petroleum Operations, Conroy, TX Contact Tom L. Powell

Operator Address: 301 Travis Suite 200, Houston TX 77002

Current Status of Well: BS producer Planned Work: _____ Inj. Tubing Size: 2 7/8 4550

(224409 OERID)
 FA=OK, 0/38=OK

	Hole/Pipe Sizes		Depths	Cement	Top/Method
Surface	17 1/2	13 7/8	896	450/200	CIRC
Intermediate	12 1/2	10 3/4	3060	450/200	CIRC
9 1/2 Production	7 5/8		4270 DV @ 3025	175/200 + 650/200	Top @ 2740'
Last DV Tool	6 1/2	4 1/2	7999	200	3358' CBL
Open Hole/Liner					
Plug Back Depth					

Diagrams Included (Y/N): Before Conversion After Conversion
 Checks (Y/N): Well File Reviewed ELogs in Imaging + CBL

Intervals:	Depths	Formation	Producing (Yes/No)
Salt Potash	1120 - 2900		
Capitan Reef	3288 TO 4245		
Cliff House, Etc:			
Formation Above	4245 - TO Perf Del.		
Top Inj Interval	4680	Del Bell	Yes - in AER
Bottom Inj Interval	6786	Brushy	NO
Formation Below	7789-7905	BS prod	NO

BS Test
 Will INJ. down DIP
 in HIGH water sat interval.

Fresh Water: Depths: 0-300' Wells (Y/N) None Analysis Included (Y/N): NO Affirmative Statement

Salt Water Analysis: Injection Zone (Y/N/NA) Y Disp Waters (Y/N/NA) Yes Types: BS/Cherry/Brushy/BS/Atoka/None

Notice: Newspaper (Y/N) Surface Owner BLM Mineral Owner(s) _____

Other Affected Parties: Yates/Marble/Saba

AOR/Repairs: Num Active Wells 1 Repairs? NO Producing in Injection Interval in AOR Y (UPDID) Cherry Canyon 4904-4847

AOR Num of P&A Wells 0 Repairs? NO Diagrams Included? — RBDMS Updated (Y/N)

Well Table Adequate (Y/N) _____ AOR STRs: Sec _____ Tsp _____ Rge _____ UIC Form Completed (Y/N)

New AOR Table Filename _____ Sec _____ Tsp _____ Rge _____ This Form completed

Conditions of Approval: Sec _____ Tsp _____ Rge _____ Data Request Sent

Sat CIBP above BS / Perf SWAB Test?
How DOES EDGE know of HIGH water sat?
TOPS conflict in the APPL. what are THEY?

AOR Required Work: What are SWD in THIS int. = ?
How NOT produce?

Required Work to this Well: What do you want / CHASOS say?

S. Lusk 34 BS